

Title (en)
AUSTENITIC STAINLESS STEEL

Title (de)
AUSTENITISCHER EDELSTAHL

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE

Publication
EP 3960881 A1 20220302 (EN)

Application
EP 20193794 A 20200901

Priority
EP 20193794 A 20200901

Abstract (en)
Austenitic stainless steel utilizing the TRIP effect with a balanced pitting resistance equivalent for high corrosion resistance. The austenitic stainless steel contains 0-0.04 weight % C, 0.2-0.8 weight % Si, 0-2.0 weight % Mn, 16.0-19.0 weight % Cr, 4.0-6.5 weight % Ni, 1.0-4.0 weight % Mo, 0-4.0 weight % W, 0-2.0 weight % Cu, 0.20-0.30 weight % N, the rest being iron and inevitable impurities occurring in stainless steels, the proportion of the ferrite phase in the microstructure is 0-10.0 volume %, the rest being austenite, when quenched and heat treated at the temperature range of 900 - 1200 °C, preferably 950 - 1150 °C.

IPC 8 full level
C21D 6/00 (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/44** (2006.01); **C21D 9/46** (2006.01); **C22C 38/42** (2006.01); **C22C 38/46** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)
C21D 6/004 (2013.01 - EP KR); **C21D 8/005** (2013.01 - US); **C21D 9/46** (2013.01 - KR); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP); **C22C 38/42** (2013.01 - KR US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - KR US); **C21D 9/46** (2013.01 - EP); **C21D 2211/001** (2013.01 - EP KR US); **C21D 2211/005** (2013.01 - US); **C22C 38/42** (2013.01 - EP); **C22C 38/58** (2013.01 - EP)

Citation (applicant)
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• [A] WO 2015087376 A1 20150618 - NIPPON STEEL & SUMITOMO METAL CORP [JP]

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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